

FIG. 1

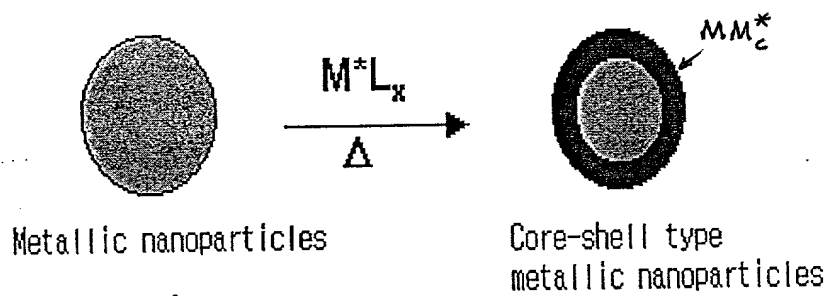
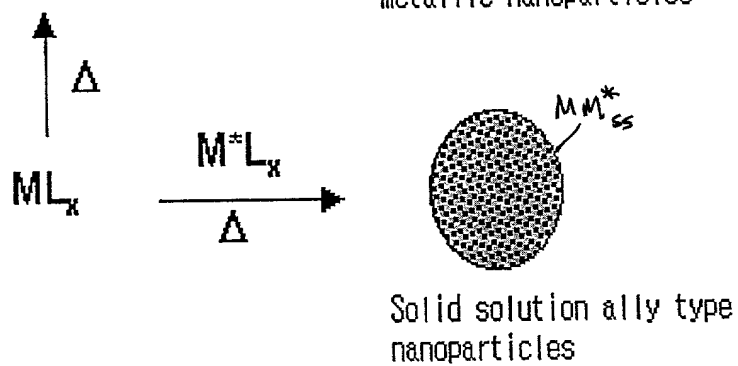
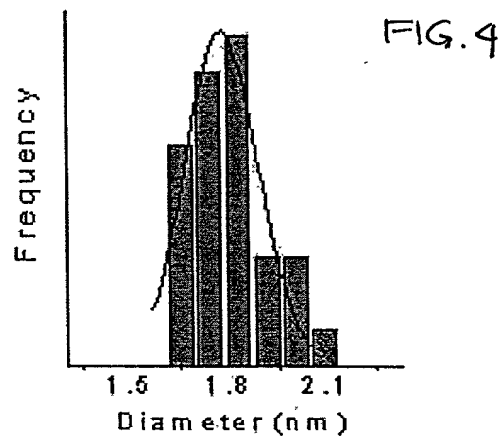
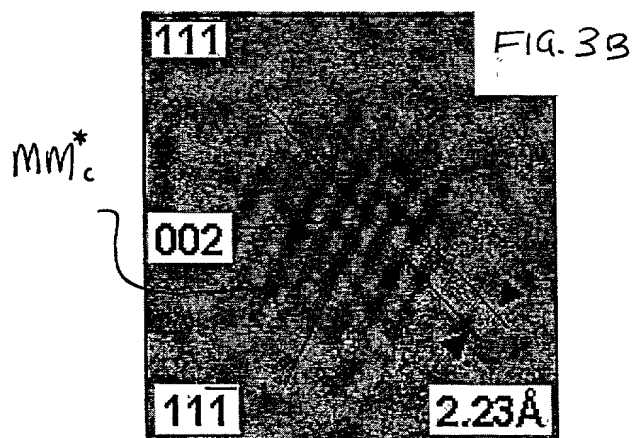
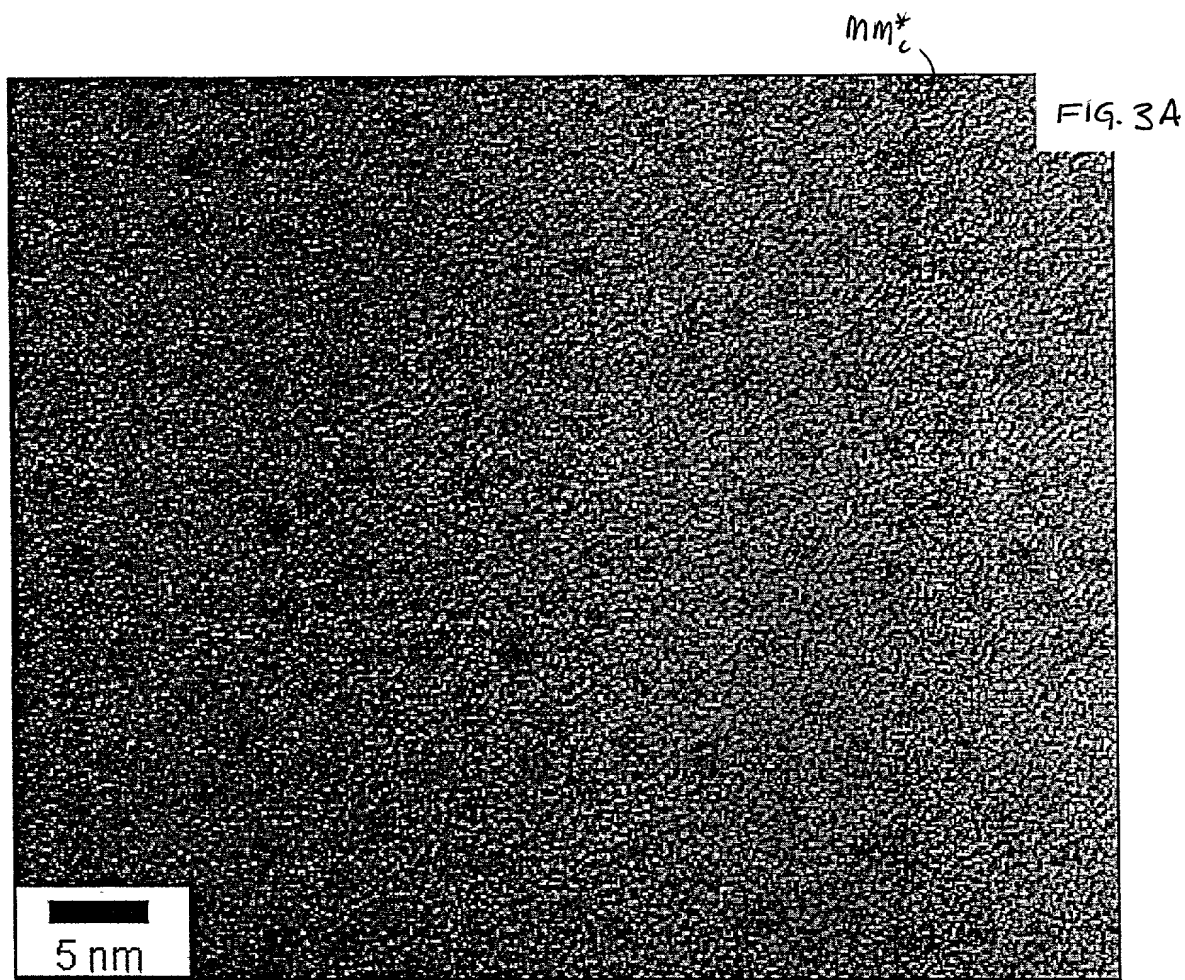
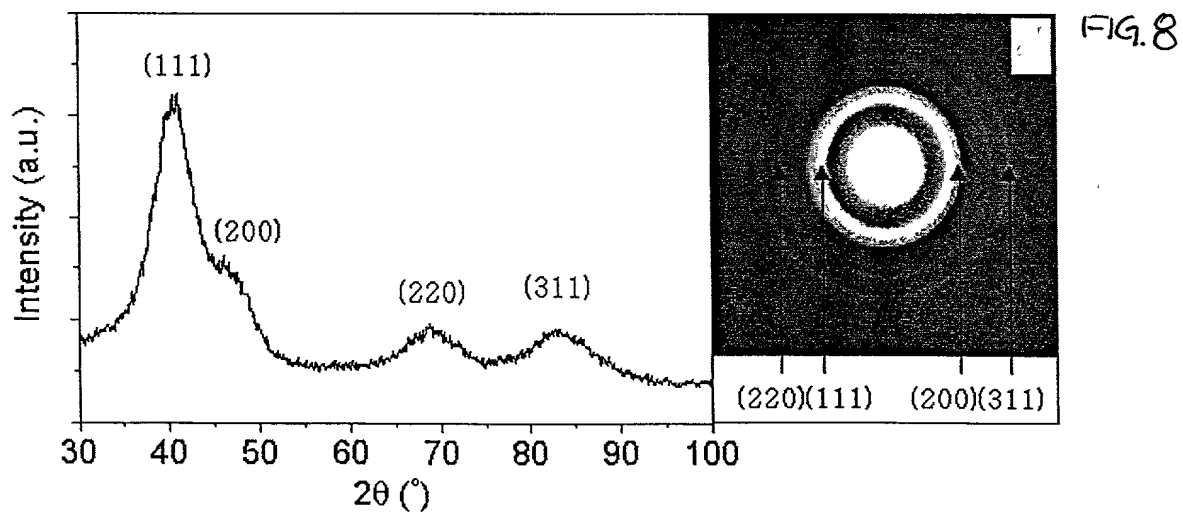
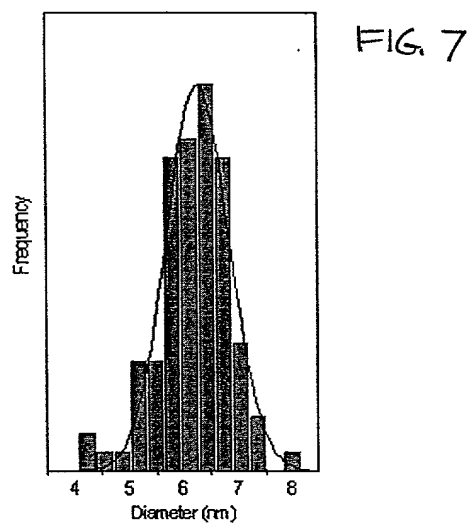
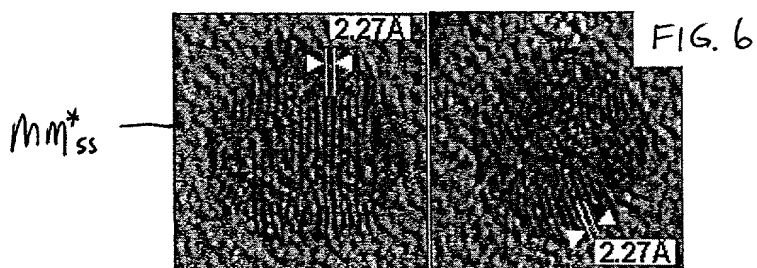
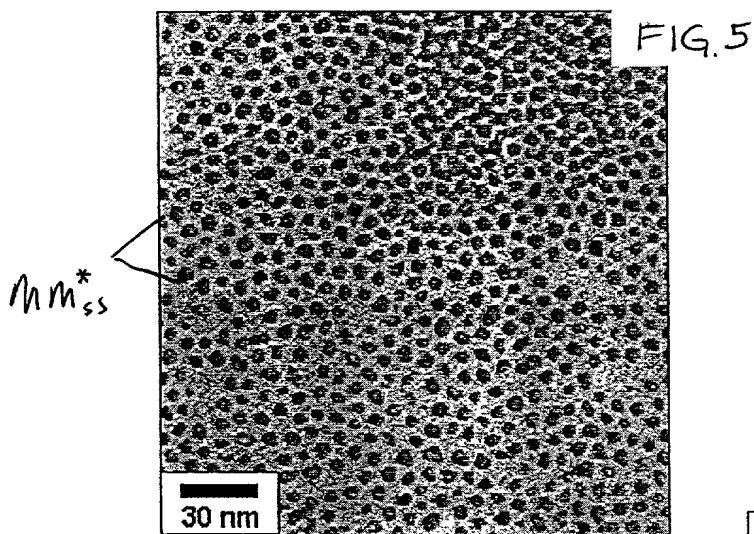


FIG. 2



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FIG. 9

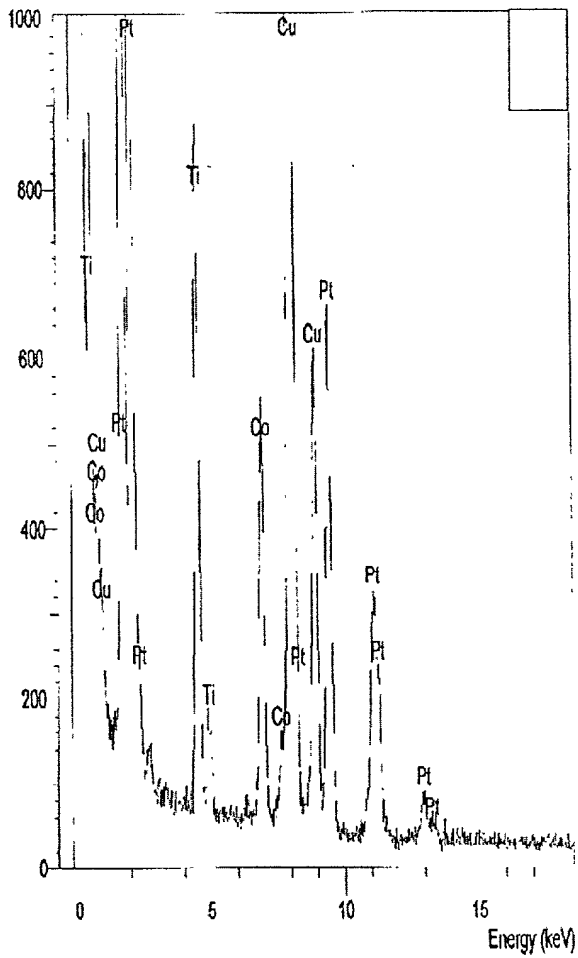
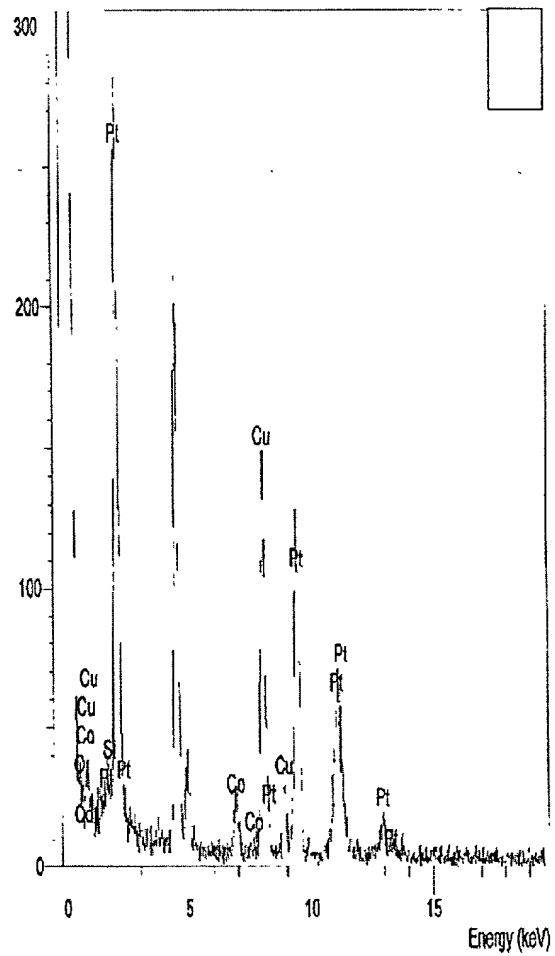


FIG. 10



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FIG. 11

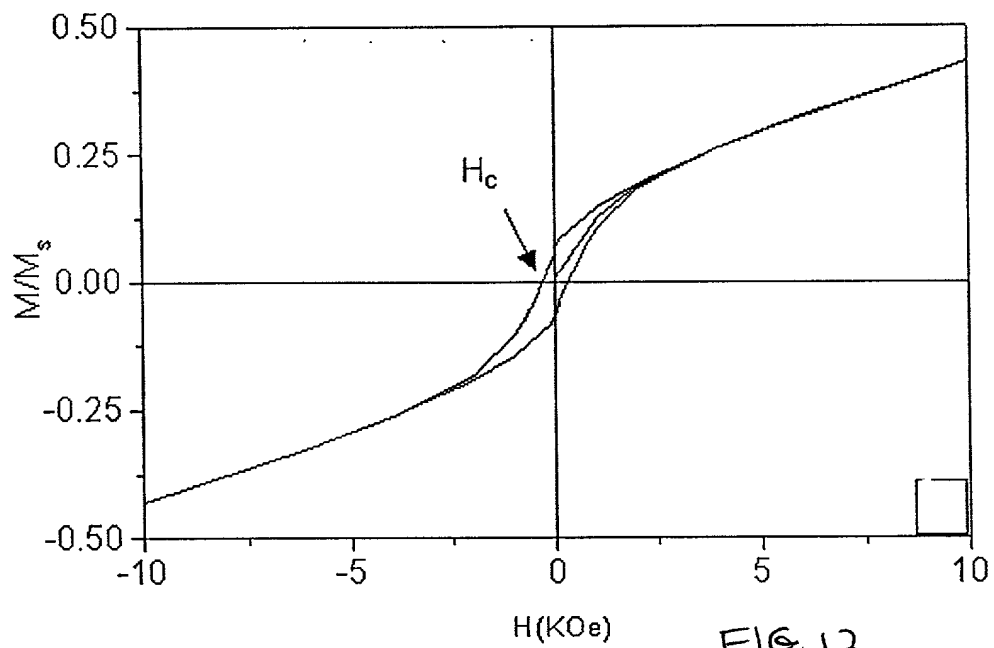
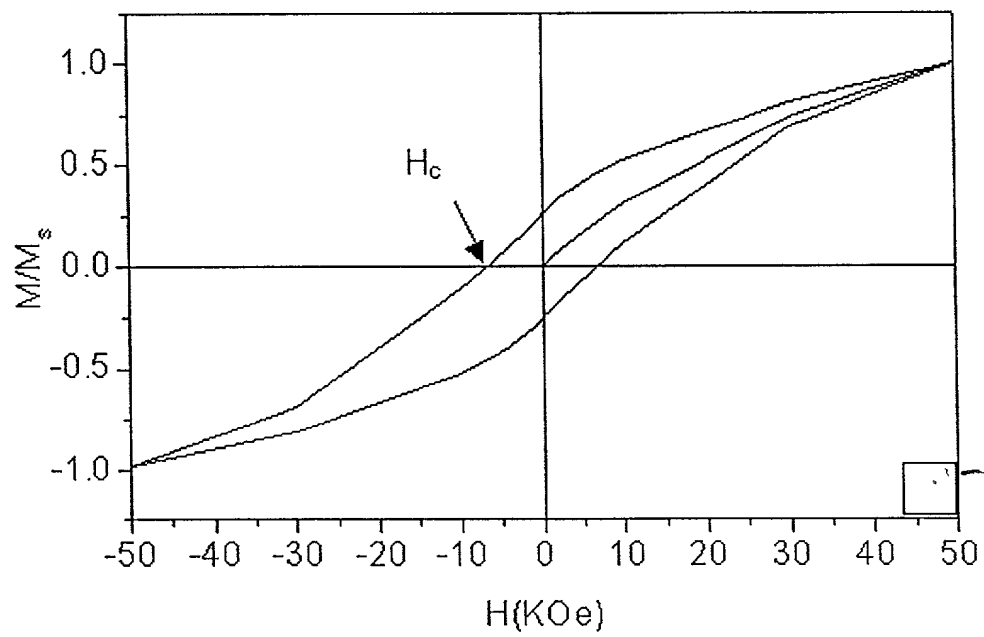


FIG. 12

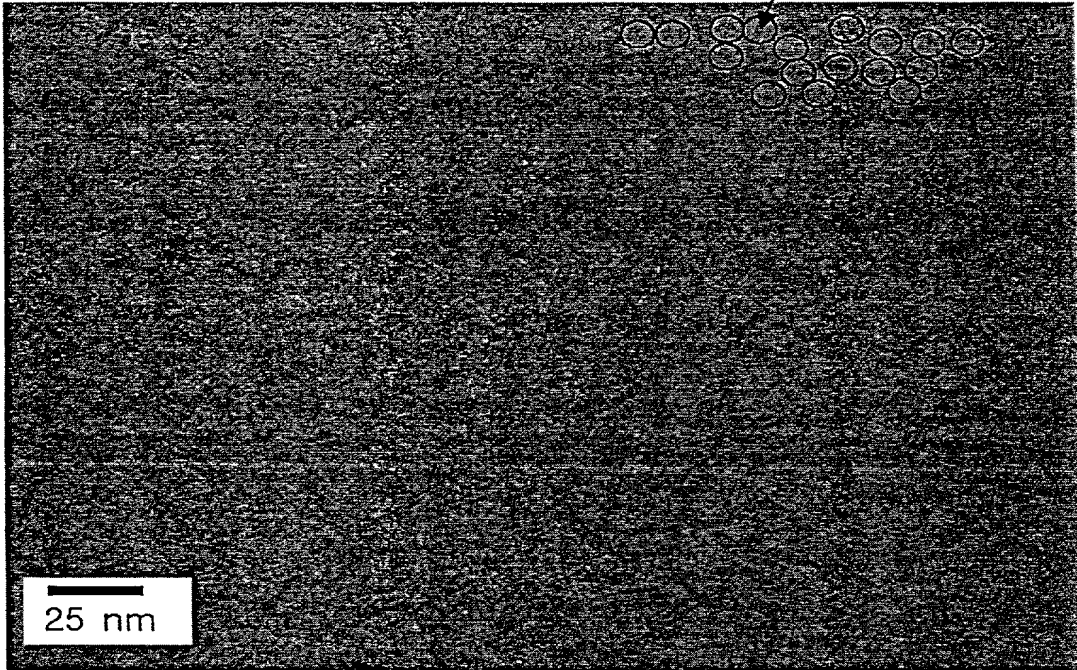


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FIG.13

Core-shell type cobalt-platinum nanoparticles

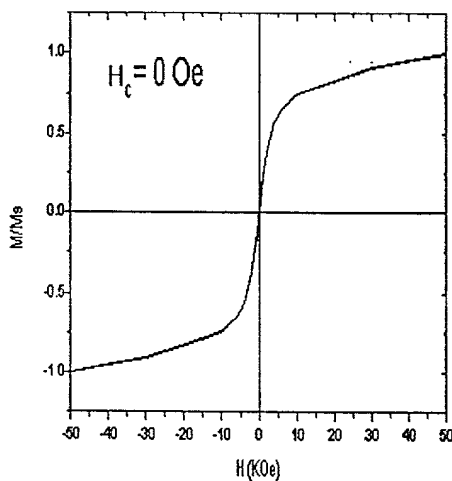
MM_2



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FIG. 14A

300 K



Core-shell type
cobalt-platinum
nanoparticles

700 °C

12 hr

Thermal
treatment

$Co_{0.5}Pt_{0.5}$

Solid solution alloy
type cobalt-platinum
nanoparticles

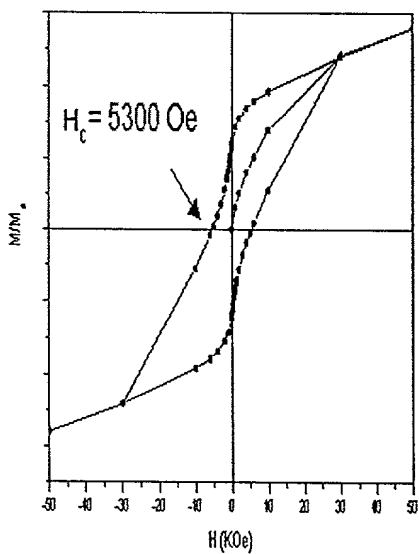


FIG. 14B

5 K

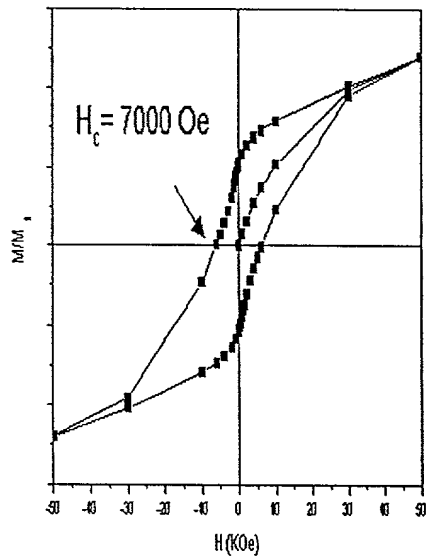
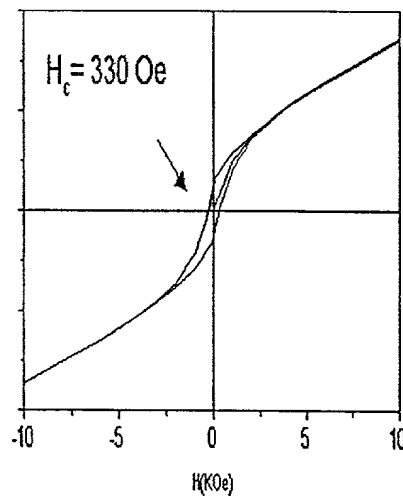


FIG. 15

100

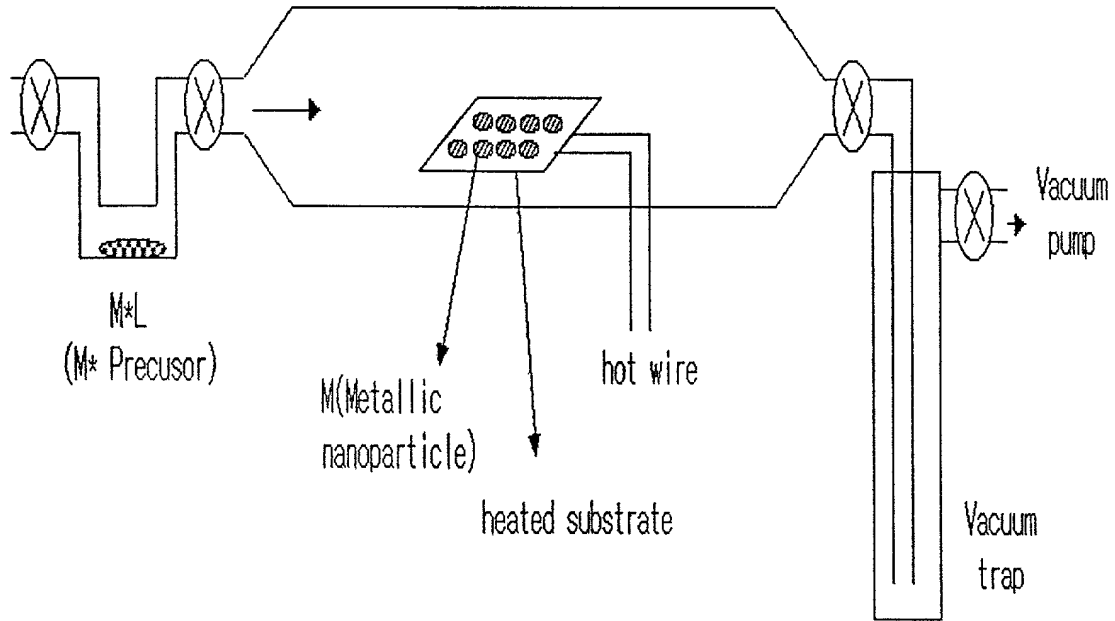
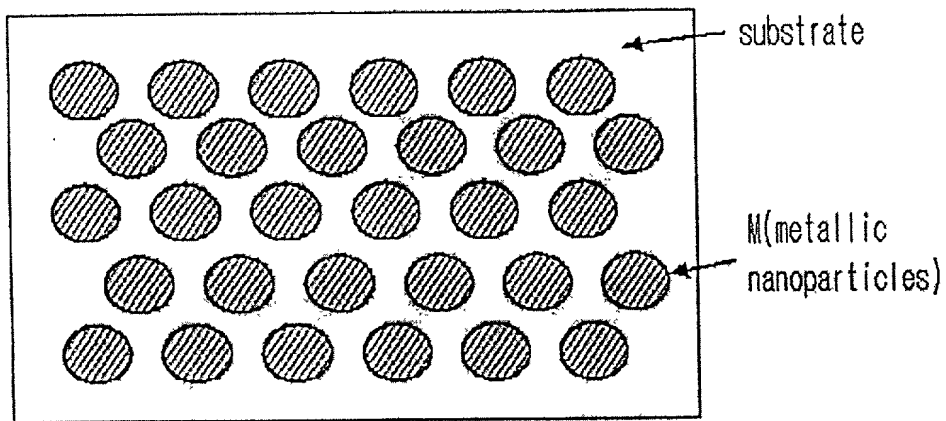


FIG. 16



Chemical Vapor deposition for conducting
the metallic transmetalation taking
advantage of oxidation-reduction
potential differences

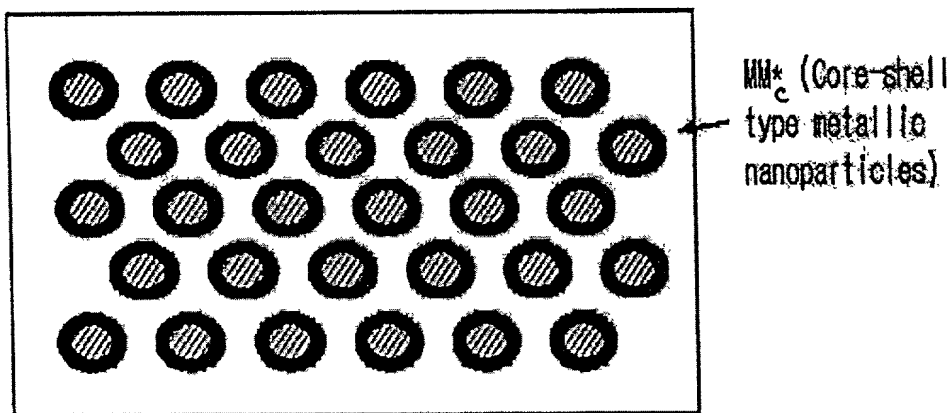


FIG. 17

